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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,893	09/22/2003	Karlheinz Hermann	0902-006	4265
Steven M. duBe	7590 03/30/2007 Ois		EXAM	INER
Potomac Patent Group, PLLC PO Box 855 McLean, VA 22101-0855			PRITCHETT, JOSHUA L	
			ART UNIT	PAPER NUMBER
			2872	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/30/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

## Disposition of Claims  ## Office Action Summary    10/664,893		Application No.	Applicant(s)			
Joshua L. Pritchett   2872	Office Action Cumpment	10/664,893	HERMANN ET AL.			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 30° ER1 13(6), in no event, however, may a reply be briefly filed.  If NO period for reply is specified above, the maximum stabilitory period with apply and will equal to specify the briefly filed.  If NO period for reply is specified above, the maximum stabilitory period with apply and will equal to common status of the provision of the communication. Explored to reply is specified above, the maximum stabilitory period with apply and will equal to the communication, even if timely filed, may reduce any come of patient time adjustment. Set 7° CFR 1.79(4).  Status  1) □ Responsive to communication(s) filed on 08 February 2007.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Clairns  4) □ Clairn(s) 15-34 is/are pending in the application.  4a) □ Of the above clairn(s) is/are withdrawn from consideration.  5) □ Clairn(s) 15-34 is/are objected to.  3b □ Clairn(s) 26 is/are objected to.  3c □ Clairn(s) 26 is/are objected to.  3c □ Clairn(s) 26 is/are objected to restriction and/or election requirement.  Application Papers  9) □ The drawing(s) filed on 22 September 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Reply:  10 □ The drawing(s) filed on 22 September 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Reply:  11 □ Certified copies of the priority documents have been received.  21 □ Certified copies of the priority documents have been received in Application No.  31 □ Copies of the certified co	Office Action Summary	Examiner	Art Unit			
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extractions of time tray be available under the provision of 317 CRT. 138(a). In no event, however, may a reply be timely liked  Extraction of time tray be available under the provision of 317 CRT. 138(a). In no event, however, may a reply be timely liked  Extraction of the provision of the provision of 317 CRT. 138(a). In no event, however, may a reply be timely liked  If NO prince for reply is specified above, the maximum stateory period uniquely and will expire its, (8) MORTHS from the mailing date of this communication, reply within the salt or extended parameter. See 37 CFR 1704(b).  Status  1) □ Responsive to communication(s) filled on 28 February 2007.  2a) □ This action is FINAL. 2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 15-34 is/are pending in the application.  4a) □ Of the above claim(s) □ is/are withdrawn from consideration.  5) □ Claim(s) 15-25 and 27-34 is/are rejected.  7) □ Claim(s) 15-25 and 27-34 is/are rejected.  7) □ Claim(s) 25 is/are objected to.  Claim(s) 25 is/are objected to.  Claim(s) 35 is/are subject to restriction and/or election requirement.  Application Papers  9) □ The precification is objected to by the Examiner.  10) □ The drawing(s) filted on 22 September 2003 is/are: a) □ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C.		Joshua L. Pritchett	2872			
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Priority under 35 U.S.C. § 119  12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) △ All b) ☐ Some * c) ☐ None of:  1. △ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Interview Summary (PTO-413)  Paper No(s)/Mail Date  5) ☐ Notice of Informal Patent Application	Replacement drawing sheet(s) including the correc	tion is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).			
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·	Paper No(s)/Mail Date 2/07,2/87.					

Art Unit: 2872

#### **DETAILED ACTION**

This action is in response to Amendment filed February 8, 2007. All applicant's arguments have been considered.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 15-22, 25, 27-30, 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spink (US 6,661,572).

Regarding claims 15-17, 28, 33 and 34, Spink discloses a microscopy system for observing an object positionable in an object plane (Fig. 1) comprising: at least one objective lens (10) arrangement for receiving an object side beam emanating from the object plane and for transforming the object side beam into an image side beam (Fig. 1); plural ocular systems (20a-b, 21a-b) arranged to enable each of the plural observers to observe the object by looking into a respective one of the plural ocular systems (Figs. 5-7), wherein each ocular system comprises at least one ocular tube (Figs. 5-7) having at least one ocular for generating an image of the object

Art Unit: 2872

plane from the image side beam, wherein each of the plural ocular systems further comprises at least one image projector (16) having a display for superimposing an image displayed by the display with the beam path of the ocular system such that the image of the object plane is perceived by the observer in superposition with the image of the display (col. 7 lines 10-21), and wherein at least one optical setting of a first ocular system of the plural ocular systems is adjustable independently of a corresponding optical setting of a second ocular system of the plural optical system (col. 7 lines 33-43; 17a-b, 18a-b); a controller (30-32) for generating the image displayed by the display of the first ocular system, wherein the controller is configured to generate the displayed image from a first input image based on the at least one optical setting of the first ocular system and a second image based on the optical setting of the second ocular system (col. 9 lines 49-53). Spink further discloses the controller is configured to generate the displayed image from a second input image independently of the at least one optical setting, wherein the second input image is superimposed with the first input image. Controller (32) of Spink controls the prisms (12a and 12b) that allow the superimposed image viewed independently of the shutter controlled by controller (30). Spink further discloses the second input image is superimposd on the first input image (col. 7 lines 17-19). Spink lacks reference to the use of a second display distinct from the first display. It would have been obvious to one having ordinary skill in the art at the time the invention was made to duplicate the display element (16), since it have been held that a mere duplication of working parts of a device involves only routine skill in the art. One would have been motivated to duplicate the display for the purpose of allowing both viewers to view the additional information provided by the display element. It is common for two surgeons to operate on a patient at the same time and it may be

Art Unit: 2872

necessary on occasion for the additional information provided via display 16 to be viewable by both simultaneously for the increased safety of the patient.

Regarding claim 18, Spink discloses the first ocular system comprises a first camera (13a) and the second ocular system comprises a second camera (13b) and wherein the controller is configured to determine the at least one optical setting based on the comparison of an image detected by the first camera with an image detected by the second camera. Controller (30) of Spink will determine the shutter location based on the superimposition of the image (col. 9 lines 49-53).

Regarding claims 19, 29 and 30, Spink discloses the objective lens arrangement comprises an optical axis, wherein the ocular tube of the first ocular system is rotatable about the objective lens arrangement and the optical axis, wherein the at least one optical setting comprise a rotational position of the controller is configured to generate the displayed image from the first input image by rotating the first input image about an image rotation angle determined in dependence of the rotational position of the ocular tube (Figs. 5-7). Figs. 5-7 show that the ocular systems are rotatable about the objective lens. Controller (32) of Spink is also capable of rotating the displayed image (col. 9 lines 49-53).

Regarding claim 20, Spink teaches the invention as claimed but lacks specific reference to the detection of the angle between the ocular tube and the objective lens arrangement. Spink teaches that the controller (32) detects the position of the prisms and rotation of the prisms used to convey the image side beam to the ocular tube. One of ordinary skill in the art would find it obvious to have the controller also detect the angle between the objective lens and the ocular tube for the purpose rotating the prisms to the proper angle to allow the observe to see the image.

Art Unit: 2872

Official Notice is taken. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Spink invention include the detection of the angle between the ocular tube and the objective lens as is known in the art for the purpose of allowing the observer to view the image of the object.

Regarding claims 21 and 25, Spink teaches the invention as claimed but lacks reference to comparing the images of the two cameras. Spink teaches two cameras (13a-b) and the controller (32) detecting the position of the prisms and rotation of the prisms used to convey the image side beam to the ocular tube. One of ordinary skill in the art would find it obvious to compare the images of the two cameras to determine the angle of rotation of the ocular tube to the objective lens. Official Notice is taken. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Spink invention include the detection of the rotation angle as is known in the art for the purpose of properly rotating the prisms to convey the image side beam to the ocular tube thus allowing the observer to view the image of the object.

Regarding claim 22, Spink discloses the second ocular tube is rotatable about the optical axis (Figs. 5-7); the optical setting of the second ocular system comprises a rotation position (col. 7 lines 14-16) and the controller is configured to generate the image displayed by the second ocular system by rotating the first input image by a second rotation angle (col. 7 lines 17-19)

Regarding claim 27, Spink discloses the plural ocular systems is a binocular system (Figs. 1 and 5-7).

Claims 23, 24, 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spink (US 6,661,572) in view of Hoppl (US 5,002,376).

Spink teaches the invention as claimed including first and second cameras (13a-b) but lacks reference to the magnification of the plural ocular systems being independently adjustable. Hoppl teaches the magnification of two separate ocular systems are independently adjustable (abstract). Hoppl teaches a means for detecting the setting of the zoom components with respect to one another (col. 4 lines 19-60). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Spink invention include the independently adjustable ocular magnification of Hoppl for the purpose of allowing the two observers to view two different images of the same object simultaneously.

# Allowable Subject Matter

Claim 26 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art fails to teach or suggest the controller scaling the first input image with a second scale factor determined in dependence of the magnification of the image generated by the second ocular system.

## Response to Arguments

Art Unit: 2872

Applicant's arguments filed February 8, 2007 have been fully considered but they are not persuasive.

Applicant argues the Spink reference does not render obvious the first and second displays based on the corresponding optical setting of the first and second optical systems respectively. The rotation location of prism (14) is considered an optical setting. The location of the prism determines whether any light from the display (16) goes to the detector to be seen by the observer. Therefore since the optical setting of the prism determines the existence of the display to be viewed the examiner interprets the images displayed by the displays are based on an optical setting.

Applicant argues the images generated by the first display can be different from the images generated by the second display since the optical settings of the first and second optical systems are independently adjustable. While the images displayed may be capable of being different they do not have to be different based on the claim language. Therefore there is an obvious variant of the claimed invention where the images displayed are the same. Thus, the claim language is properly rejected under 35 U.S.C. 103.

Applicant argues the Spink reference fails to disclose handling the generation of the images displayed by the first and second displays differently. This limitation is not in the claim language therefore this argument is moot.

Applicant argues Spink does not distinguish between the first and second input images.

This limitation is not in the claim language therefore this argument is moot.

Art Unit: 2872

Applicant argues Spink fails to disclose the optical setting is determined based on the superimposition of the image. This limitation is not in the claim language therefore this argument is moot.

Applicant argues Spink does not disclose different generation of the image depending on any optical property. This limitation is not in the claim language therefore this argument is moot.

Applicant argues Spink does not disclose rotation of the ocular system about the optical axis. Figs. 5-7 of Spink show the location of the surgeon and assistant can be moved about the optical axis of the microscope centered on the patient being observed.

### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2872

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L. Pritchett whose telephone number is 571-272-2318. The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone Allen can be reached on 571-272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua L Pritchett

Examiner

Art Unit 2872

Stephone B. Allen Supervisory Patent Examiner